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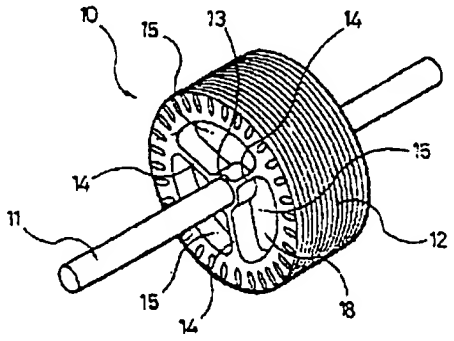
# (54) ROTOR FOR INDUCTION MOTOR

(57) Abstract:

PROBLEM TO BE SOLVED: To reduce the magnetomotive force loss of an induction motor, and to enhance the starting efficiency of the rotor by causing a rotor core to have a plurality of spaces divided by core legs around shaft-inserting hole formed in the central part of the rotor core.

SOLUTION: A rotor 10 has a shaft-inserting hole 13 to be jointed to a motor shaft 11 at the center of the rotor core 12, and with the shaft-inserting hole 13 as the center, a plurality of core legs 14 are formed radially, and spaces 15 are formed between the core legs 14. The core legs 14 are formed into identical shape on both sides of the rotor core 12 respectively, and the spaces 15 are also formed at the same positions symmetrically, and the spaces 15 on both sides are clogged up by a screen board 18. Consequently, the distance for magnetic flux to pass is shortened, and the loss of a magnetomotive force can be reduced. Accordingly, it becomes possible to raise the starting efficiency of the motor. Besides, it becomes possible to reduce the no-load torque and the inertial force, since the weight of the rotor 10 is reduced by the spaces, and it is possible to reduce the manufacturing cost as well, by curtailment of rotor core 12 materials.





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